

Claims

1. A cultivar of *Phyllanthus amarus* 'CIM-Jeevan', producing high amount of herb, phyllanthin and hypophyllanthin, wherein said cultivar is developed through γ -irradiation of superior germplasm, having following characters:
 - a. the said plant produces high amount of herbage yield ranging between 1.0-1.15 kg per sqm fresh total plant herb,
 - b. the said plant possesses high vegetative erect growth with a height ranging between 60 to 65 cm,
 - c. the said plant has distinct molecular profile established by Random Amplified Polymorphic DNA (RAPD),
 - d. the said plant has leaves with following characteristics,
 - o Color: greenish leaves with upper surface (127A) and lower surface (136D),
 - o Surface: Smooth,
 - o Shape: elliptic oblong to ovate,
 - o Margin: ciliate,
 - o Tip: obtuse,
 - o Base: Obtuse,
 - o Petiole length: 0.3-0.7 mm,
 - o Length: 6 to 10 mm, and
 - o Width: 4 to 5 mm
 - e. the said plant has stem with following characteristics,
 - o Terete,
 - o Smooth,

- Green (138C)
- Young parts are rough

f. the said plant has flowers with perianth having the following characters:

- Lobes 5, sub-equal, elliptic or oblong, Disc 5 roundish
- Stamens: 3, free, filaments connate in a column, anther sessile
- Style: 3, spreading, stigma bi-fid, divergent

g. the said plant has fruit with the following characters:

- a. Capsule,
- b. Obvate-rounded,
- c. Yellow green group (144 D)

h. the said plant has seeds with the following characters:

- a. Triangular,
- b. longitudinal ribs,
- c. transverse striate on back,
- d. weight of 1000-seed: about 1.8g.

i. the said plant produce phyllanthin ranging between 0.70-0.77% in dry herb ,

j. the said plant produce hypophyllanthin ranging between 0.32-0.37% in dry herb,

k. the said plant produce average dry seed per plant of about 4.1 in grams,

l. the said plant produce average dry leaves per plant of about 5.75 in grams,

m. the said plant produce average dry biomass per plant of about 11 in grams,

- n. the said plant produce average fresh biomass per plant at harvest of about 55 in grams,
- o. the said plant shows seed germination of about 90%, and
- p. the said plant is an annual herb,